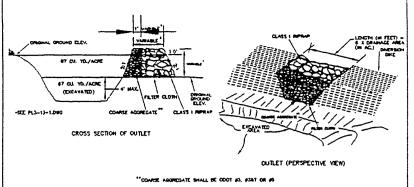


SPECIFIC APPLICATION THIS METHOD OF RELET PROTECTION IS APPLICABLE WHERE THE PRETE DRAWS A PELLATHOLY PLAY META (SLOPE NO GREATER THAN SEE WHERE THE RELET SHEET OR OUTCLAND PLOYS (HOT EXCEEDING I.C.S.) ARE THEFOL. THE METHOD SHALL HOT APPLY TO NUETS RECORDED CONCONTRATED FLOWS, SUCH AS METHOD AND ADDRESS OF THE SECOND OF THE SECOND SHEET OF THE

SILT PENCE DROP INLET PROTECTION



TEMPORARY SEDIMENT TRAP

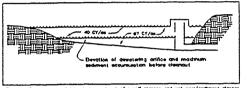
SEDMENT BASIN DESIGN CRITERIA

The design criteria includes 1) Pool Design, 2) Embankment Design, 3) Cutter Design, and 4) Emergency Spillway Design.

Design Productives— in addition to the following design criteria, simple procedures are provided which may be used to meet these requirements. Other accepted engineering design procedures determine used to meet the design ordered.

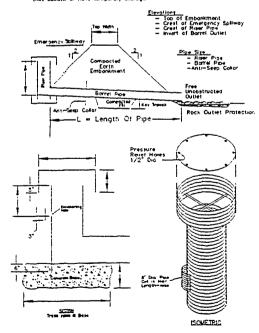
Runoff Calculations——Runoff computations must be based upon the morst sol—cover conditions expected to prevot in the contributing arange area during the anticipated erretche life of the structure. Runoff must be computed by occepted eigeneeming mathods such as the Rational Method, MRCS TR—55, or broke outlined in Chapter 2, Estimating Runoff, Engineering Field Handbook for Conservation Precibes. MRCS.

POOL DESIGN CRITERIA:

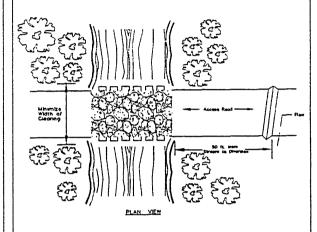


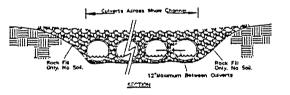
2. Volume—The minimum volume of sediment basins shall be 87 cy (0.04 of -ft.) for each ears at drainage area. This volume is measured basins the top of the principal spillegis creat devestion. The drainage area includes the entire area contributing small to the sediment bosin. off-site as well as an. Sediment basis will be seened with before sediment occumulation reduces the volume to 80 cylos. The description must be clearly manual on the rises. See

Depth—The past and be configured to maximize the optimum depth of 3 ft Depth over 3 ft, should be avoided. The depth shall be measured to the top of the zenacool outset. Optimum depth is most important for bowns that deepter or have temporary storage.



SEDIMENT BASIN DETAIL





Speam Disturbence—Disturbanct to the steam and be kept to a minimum. Streambank registion and be preserved to the maximum extent practical and the stream crossing shall be exported as practical.

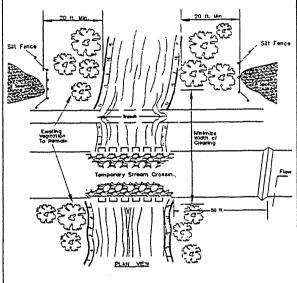
Cleaning shall be done by cutbing NOT grabbing. The roots and stumps shall be left in place to help stabilize the banks and occase are revegetation.

8 F3 and Surroce Moternal—A2 meternal placed in the stream channel, around the culterts the surface of the crossing stad be stone, rock or egystole. CDOT No. 1 shall be the minimater that the prevention each rock may be successfully state. To prevent members, longer stone and rock may be surfaced. NO SOK, SMALL BE USED IN DR. CONSTRUCTION OF A STREAM CROSSING OR PLACED IN THE STREAM CHANNEL.

Removal—Aggregate stone and rock used for this structure does not need to be removed. Core
should be taken so that any appropriate left need not create an incomment or impade fish
passagas. At pross, curvers, posicial or structures must be removed.

10 Stabilization—Streambanks shall be stabilized. Plantings shall include voody vegetation where practical

CULVERT STREAM CROSSING DETAIL



SPECIFICATIONS FOR STREAM UTILITY CROSSING

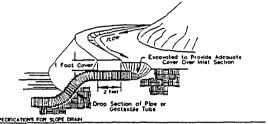
I. When site conditions allow, one of the following shall be used to divert stream flow or otherwise kep the fiber beey from construction activity.
Deli or born the stickly instead under the stream channet.

Construction a confercion or borricode of sheet pilings, sonstons or a turbility curton to keep the stream from continually libering through the disturbed orest. Turbility curtons shall be a pre-resembled bystem and used only partial to live.

Stage construction by confining first one—half of the chart or and work there is completed and stabilized, then move to the other side to complete the closts g Route the scream flow pround the work orea by bridging the reach with a rigid current, pumping, is constructing a temporary channel. Temporary channels shull by rigid temporary channels shull by rigid temporary channels.

. Fill Pieced Mithin the Channet—The only fill permitted as the channel should be dean appropriate, tone or neck. No soil are stone fine encouples motional small as possed in the channel. This selection includes oil fill for temporary crossings, disertion, and thresh bootfill sines blocked in demand soler. If the stream flow is diverted enough from our struction activity the material angional selection that the terral may be used to beautifilities than it.

LARGE STREAM UTTILITY CROSSING DETAIL

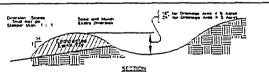


The stope drain may be constructed

The Drop section of the structure may consist of corregated metal or plastic plac or fleuble tubung made of geotoxide.

Size of Pipe and Florible Tubing	_1	
Diameter (In.)	Meximum Drainage Area (ac	
12	0.5	
18	1.5	
21	2.5	
24	3.5	
30	20	

SLOPE DRAIN DETAIL



SPECIFICATIONS FOR TEMPORARY DIVERSION

Diversions shall not be breached or lowered to allow construction traffic to cross;

Diversion Stope	< 2 oc.	2 - 5 ac.	5 - 10 oc.
0 - 3%	Seed and Straw	Seed and Straw	Seed and Stro
3 - 5%	Seed and Straw	Seed and Stree	Matterg
5 - 8%	Seed and Straw	Matung	Matting
8 - 207	Seed and Straw	Melling	Engineered

TEMPORARY DIVERSION DETAIL

EROSION CONTROL NOTES

SERMENT CONTROL SHALL BE ACCOMPUSHED BY SEEDING AND MULCHING TO ALL DISTURBED AREAS INDEEDNATELY UPON COMPLETION OF EXCAVATION OR FILL AND FINISH GRADING IN ACCORDANCE WITH OOD! TIESD SOS AND/ON AS SECCINED BY THE COLUMN, RAINWATER AND LAND DEVLOPMENT MANUAL.

TEMPORARY SEEDING SHALL BE APPLIED WITHIN ALL NEW ROADWAY AREAS, UTILITY EASEMENTS AND/ OR AREAS REQUERING ONLY TEMPORARY SEEDING. AND SHALL BE PERFORMED AS SOON AS GRACING IS COMPLETED AND READY FOR RELEASE. NO RELEASE BEYOND BOX SHALL BE MADE FOR EARTHMORK ITEMS UNTIL SEDIMENT CONTROL IS IN PLACE TO PROTECT SAID WORK ITEMS.

CONTRACTOR SHALL COMPLY WITH THE MAINTENANCE SCHEDULE INCLUDED IN THE APPROVED PLANS FOR THE PROPOSED EROSION CONTROLS.

DETENTION PONDS, SEDMENT PONDS, AND PERMETER SEDMENT CONTROLS SHALL BE REPLEMENTED AS THE FREST STEP OF ORADING AND WITHER SEVEN (7) DAYS FROM THE START OF GRUBBING. THEY SHALL CONTINUE TO FUNCTION UNTEL DISTURBED AREAS ARE RE-ESTABLISHED.

DISTURBED AREAS THAT WILL REMAIN UNWORKED FOR A PERIOD OF THIRTY (30) DAYS OR LONGER SHALL BE STABILIZED WITH SECTING AND MULCHING, OR OTHER APPROPRIATE MEANS, WITHIN SEVEN (7) DAYS AFER EARTH MOVING CLASES, PORMAINEN SOLIS STABILIZATION SHALL BE INSTALLED WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION CONTROL MAINTENANCE AND INSPECTIONS ON A WEEKLY BASS AND AFTER ALL RAINSTORMS PRODUCTION 1/2" PER 24 NOUR. ALL MEASURES SHALL BE REMOVED AFTER THE STE IS STABLED AND/OR SO INFECTED BY CONFIRMING AGENCIES.

2. THE CONTRACTOR SHALL LIMIT THE SURFACE AREA OF ERODIBLE EARTH MATERIAL EXPOSED BY EXCAVATION, BORROW, AND FILL OPERATIONS AND PROVIDE IMMEDIATE PERMANENT OR TEMPORARY CONTROL MEASURES TO PREVENT CONTRAMANATION OF ADJACENT STREAMS OR OTHER COURSES, LAKES, PONDS, WELT-ANDS OR OTHER APEAS OF WATER INPOVINGENT, LINITS TO CLEAPING AND GRADING SHALL BE CLEARLY MANGED ON SITE WITH SIGNACE, TLAGGING AND/OR FENCING.

3. THIS WORK SHALL CONSIST OF TEMPORARY CONTROL MEASURES AS DETAILED ON THE PLANS OR ORDERED BY THE LAKE COUNTY SOL AND WATER CONSERVATION DISTRICT DURING THE LEFE OF THE CONTRACT TO CONTROL, SOLD REPOSON AND SCOMENTATION IMPROUND USE OF SILT FENCES, SLOPE PROTECTION, SEDMENT BASHS, MULDHES, SEEDING, FETER FABRICS, DITCH LINING AND OTHER RESPOND CONTROL DEPMICES ON WETHOUS.

A TEMPORARY EROSION AND SEDMENT CONTROL ITEMS, THE LOCATION AND SIZE OF WHICH APE DETAILED ON THE PLANS, SHALL BE INSTALLED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF ANY CLEARING OR EARTH-MORK OPERATIONS. THE PRIOR TO CONTROL MEASURES WILL BE USED WHEN AND AS DRECTED BY THE ENGINEER TO COMPECT CONDITIONS THAT DEVELOP DURING CONSTRUCTION THAT WERE NOT PRESENTED UPWING THE DESCENS STACE. THAT ARE NEEDED PRIOR TO INSTALLATION OR PERMANENT CONTROL EROSION THAT DEVELOP DURING THE DEVELOP DURING THE DEVELOP DURING THE DEVELOP DURING THE DEVELOP STATEMENT OF INSTALLATION OR PERMANENT CONTROL EROSION THAT DEVELOPS DURING MORMAL CONSTRUCTION PRACTICES.

EDYSINGCTION PROCINCES

S. EXISTING VECETATIVE GROWTH SHALL REMAN UNDISTURBED AS LONG AS POSSIBLE THE CONTRACTOR
SHALL SEED AND MULCH ALL AREAS DISTURBED BY THE CONSTRUCTION AND MEND HERE EXPOSED FOR MORE THAN 30 DAYS. SEEDED AREAS MILL BE INSPECTED. AND AREAS WHERE THE SEED HAS NOT
PRODUCED A GOOD COVER SHALL BE RESELED AS INCRESSARY BY THE CONTRACTOR. STABILLE AREAS
WITH MALLON WHEN CONSTRUCTIONS PROHIBET SEEDING STABILLE AREAS WITHIN 30 FET OF ANY STREAM
OR WEITLAND WITHIN 2 DAYS ON ALL MACTIVE DISTURBED AREAS THAT WILL REMAIN WACTIVE
FOR FOURTEDN (14) DAYS OR LONGER.

6. TEMPORARY EROSION CONTROL FEATURES SHALL BE ACCEPTABLY MAINTAINED AND SHALL SUBSEQUENTLY BE REMOVED OR REPLACED MEN DRECTED BY THE DIVINIER. TEMPORARY AND FERMANENT EROSION. CONTROL FRATURES SHALL BE CHECKED AFTER EACH MEASURABLE MARKALL AND RE-ESTABUSHED AS NECESSARY. REMOVED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF THE STATE.

7. IN THE EVENT THAT TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE REQUIRED DUE TO THE CONTRACTOR'S NECLIGENCE, CAPILLESSNESS, OR FAMILIE TO INSTALL PERMANENT CONTROLS AS A PART PART OF THE WORK, SHALL BE PERFORMED BY THE CONTRACTOR AT HIS EXPENSE.

8. ADDITIONAL EROSION CONTROLS MAY BE MANDATED BY THE LAKE COUNTY SWCD.

9. ROUTING INSPECTION WILL BE CONDUCTED ON ALL BROSION CONTROL PRACTICES FOR THIS PROJECT. THE CONTRACTOR WILL BE RESPONSIBLE FOR CORRECTING ALL DEFICIENCIES REVEALED BY THE INSPECTIONS.

10 THESE NOTES AND DRAWINGS ARE INTENDED TO SERVE AS BASIC QUIDELINES, ALL EROSION CONTROL PRACTICES SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE QUANT. RAINWATER AND LAND DEVELOPMENT MANUAL. SEEDING SPECIFICATIONS

1. TEMPORARY SEEDING AND MULCHING SHALL BE PLACED ON ALL DENUDED AREAS THAT ARE TO TO ROMAIN OPEN FOR THIRTY (30) DAYS OR LONGER WITHIN SEVEN (7) DAYS.

2. TOPSOL STOCKPILES SHALL RECEIVE TEMPORARY SEEDING AND MULCHING AS SOON AS STOCKPLING OFERATIONS ARE COMPLETED OR A SET FENCE SHALL BE INSTALLED ALONG AND 5' MIN. FROM THE TOE OF THE STOCKPLE. TOPSOL SHALL BE REPLACED AS QUICKLY AS CONSTRUCTION PERMITS.

3. SEEDING AND MULCHING IN DITCHES AND SWALES WITH STEEP CRADIENTS OF A FLOW GREATER THAN 3.5 FPS SHALL BE SECURED WITH JUTE OR EXCELSION MATTING.

SEED TYPE

SELECT A SPECIES OF MOISTURE APPROPRIATE FOR THE SITE.

SEED SPECIES & DATES PER ACRE A, MARCH I TO AUGUST 15 1) OATS OR ANNUAL RYEGRASS 2) PERENNIAL RYEGRASS 3) TALL FESCUE E AUGUST 16 TO NOVEMBER 1) CEREAL RYE OR WHEAT
2) 50/50 MIX PERFINNIAL
ANNUAL RYEGRASS
3) TALL FESCUE 43 DL

C. AFTER NOVEMBER I(SEE DORMANT SEEDING METHODS BELOW)

1, WORY THE UME AND FERTELIZER (12-12-12 ANALYSIS, OR EQUIVALENT) INTO THE SO'L TO 4 DEPTH OF TWO INCHES. ON SLOPING AREAS, THE FINAL OPERATION SHALL BE ON THE CONTOUR

1. APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKEP SEEDER, OR HYDRU-SEEDER (SLURRY MAY WOLLUGE SEED AND FERMILERS) ON A FIRM, MOST SEEDED, COVER TO A DEPTH OF 174" TO 72", AND FRM SEEDED WHERE FEASIBLE.

NULCH SHALL BE APPLIED TO PROTECT THE SOIL AND PROVIDE A BETTEP ENVIRONMENT FOR PLANT GROWN CONSISTING OF SMALL GRAIN STRAW (PRETERBLEW HILLEST OF RISK) AND SHALL BE APPLIED AT THE PARTE OF TWO TONS PER ADR OF 100 DB (TWO OF THEE BALES) FOR 1000 SF.

1. IRRIGATION - IF SOIL MOSITURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER FOR PLANT CROWTH UNTIL THEY ARE FIRMLY ESTABLISHED.

2 REPAIRS - INSPECT ALL SEEDED AREAS FOR FAILURES AND MAKE NECESSARY REPAIRS, REPLACEMENTS. RESEEDINGS, AND REMULCHING WITHIN THE PLANTING SEASON, IF POSSIBLE.

1. SEEDINGS SHALL NOT BE PLANTED FROM OCTOBER 1 THROUGH NOVEMBER 20.

2 FROM OCTOBER 1 THROUGH NOVEMBER 20, PREPARE THE SELDBED, ADD THE REQUIRED AMOUNTS OF LINE AND FERTILIEER, THEN MULCH AND ANOORS, AFTER NOVEMBER 20, AND BEFORE MARCH 15, BROADCAST THE SELDBER RATES BY 2007 FOR THIS TIPE OF SELDBER. 3 FROM NOVEMBER 20 THROUGH MARCH 15 WHEN SOIL CONDITIONS PERMIT, APPLY THE SELECTED SEED MIXTURE, MULCH AND ANCHOR INCREASE THE SELDING RATES BY 50% FOR THIS TYPE OF SEEDING.

Ralph W. Kempke Surveying Professional Land Surveyor

LAKE COUNTY SOIL AND WATER CONSERVATION DISTRICT

SCALE: HOR. ... VERT. ____ FILENAME ! CH'K'D BY .

STANDARD DETAILS

